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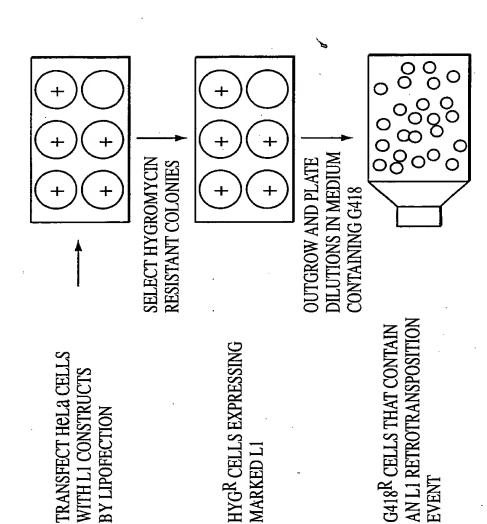
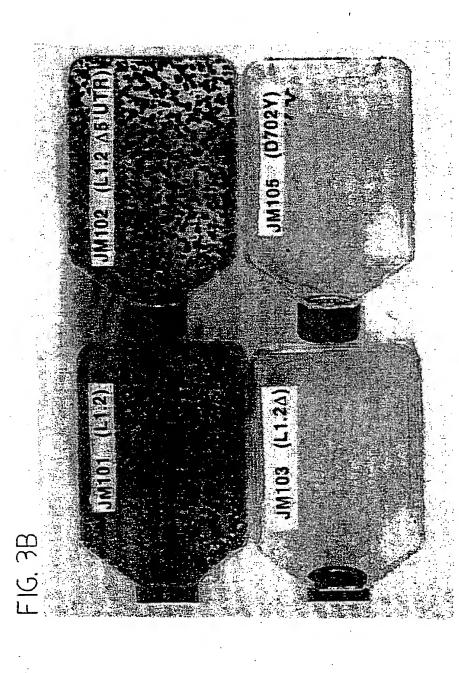
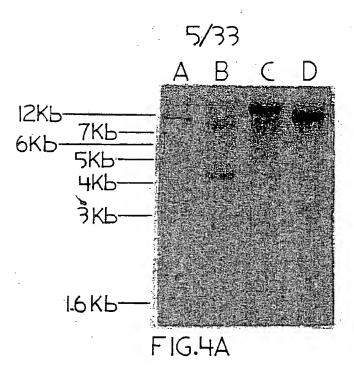
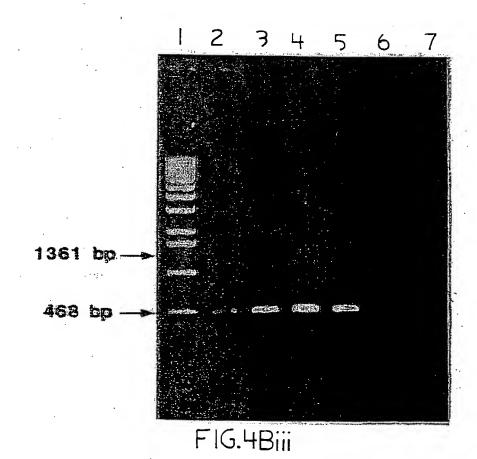
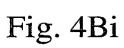


Fig. 3A









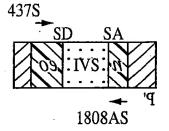
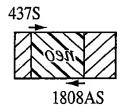


Fig. 4Bii



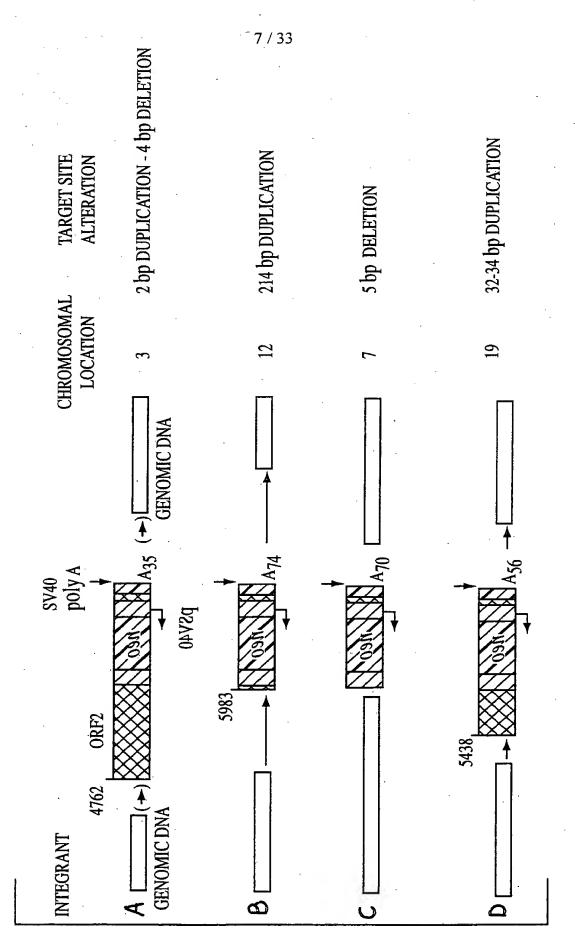


Fig. 5

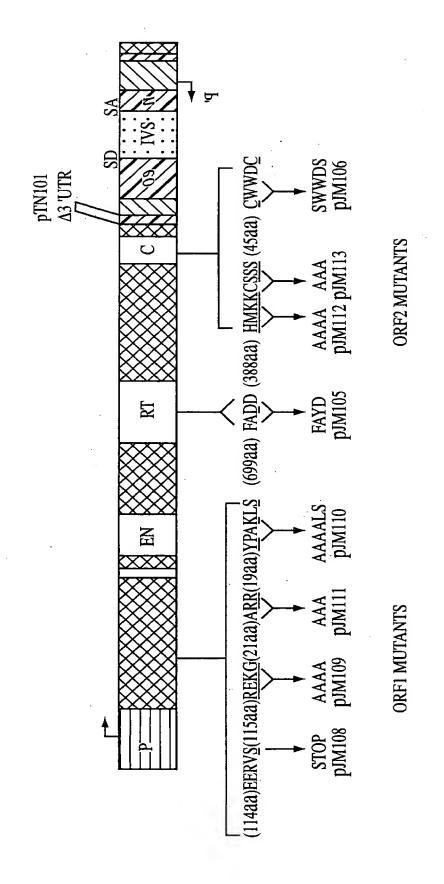
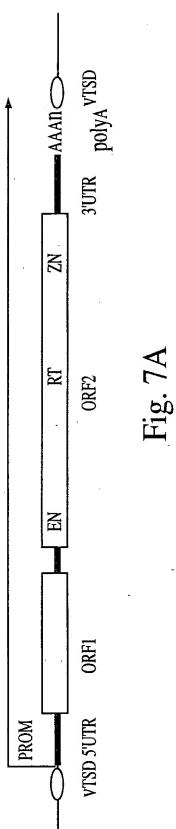


Fig. 6



0	0.0		·		C	
MVQLKILYWNVGKS	(13) YDIVAIQEPG	(22)	KGRAVIYVNK	(25)	PTTVYSIYSPILT	_
DIEQNPGPIAVLQMNVSCL	_	(2	GGGVAVLVRK	(31)	DLIVASAYMRPPP	
MDIRPRLPIGQINLGGA	()		KAGVYIRNRV	(22)	DLYMVSAYFQYSD	
MQISLNIVEWNANGL	(15) IDVMLLSETH (15) IDILLVSESH	(23)	HGGTALLIRN RGGAAMLIKS	(32)	LLTLAAVYCPPRF	
MTQPTLKIGLWNARGL	5)	(24)	RGGSAVIIKS	(27)	TVTVAAVYLPPAE	
MSLTVIQWNLKGY	(15) PHIISLQETH	(23)	FGGVRILVHK	(24)	KLNIFSTYISPTK	
.MTGSNSHITILTLNINGL	_	(25)	KAGVAILVSD	(27)	ELTILNIYAPNTG	
MALSISTLNTNGC	(17) YSVSFLQETH	(25)	SCGVVTLFSD	(27)	TYNLMNVYAPTTG	
GYYPMNTNCCIFSWNVRGL	(17) ATSVCLQETK	(27)	GASGGILIAC	(29)	VWDLTAVYGPQQE	
NKTIKKNTIRIGVWNVQGS SPSGKPATLKICSWNVDGL	(17) LDAALLTETN (16) PDILCLQETK	(27)	QGVSQIIINT GYSGVGLLSR	(23)	QIKCTTIYAPAKS SFVLVTAYVPNAG	
- 1	-17 1	3-27		22-3	1 6-23	_ <u>w</u>
ī.	5-17	23-28		27	27-28	8
MLKIAAFNIRTF ts 14A	(20) YDIVLIQEVR ↓ E43A		·	(1)	(120)	
	FIG. 7B	3 <u>i</u>	·			
						_

0	000	GSDHCPQEIWVQV	LSDHYVLTFTLHQ	SSDHRLIVFGVGG	SSDHSPVLIHLRR	VSDHSAVNLLLNI	SSDHLPILAVLHA	GSDHFPIITTLFP	LSDHSAIKLELRI	FSDHNCVSLRMSI	TSDHSPLLMQGHS	KSDHNMVIJELKI	GSDHCPITLYLAL			ISDHYPVEVTLT	↓ H230A
		(1.6)	(13)	(14)	(15)	(15)	(15)	(16)	(16)	(16)	(18)	(17)	(17)	3-18	17-21	(31)	
0	0	GE. PTRLGNATRGERDGTIDHAWLS	GE.ITTARGIRERSCIDLIWSK	GHLPTFSTANGESYVDVTLST	PGSPTYWPSDLN.KLPDLIDFAVTK	TGEPTHWPSDPS.KQPDLLDIAICK	TGEPTFYSYNPL.LTPSALDFFITC	DKSPTHFSTHNTYSHIDLTLCS	TE.YTFFSAPHHTYSKIDHIVGS	VA. FTYVRVRDGHVSQSRIDRIYIS	KK. FT. WSNEQDDPTMSRIDRLMAT	NG.ITFPRNKSTIDRVFVS	TF.WTYMMNARSKNVGWRLDYFLLS	13	17	CAYDRIVVA	D205G
		(29)	(25)	(35)	(26)	(24)	(24)	(24)	(34)	(34)	(30)	(19)	(45)	-35	44-50	(31)	
-	0 0	NLVAVGDLNLHHPDWD	PLLLCGDFNMHHPQWE	RVVICADTNAHSPLWH	HFIAAGDYNAKHTHWG	RFIAAGDFNAKHSWWG	KFIAGGDYNAKHAWWG	PSLITGDFNGWHPSWG	HTLIMGDENTPLSTLD	ALIIGGDFNYTLDARD	EWLILGDFNMIRRVGE	SDIITGDFNVDCSVDN	PLVLCGDLNVAHEEID	21	44	DVMLMGDFNADCSYVT (↓ D145A
		(23)	(17)	(19)	(16)	(16)	(16)	(16)	(18)	(21)	(19)	(11)	(27)			. —	

FIG. 7Bii

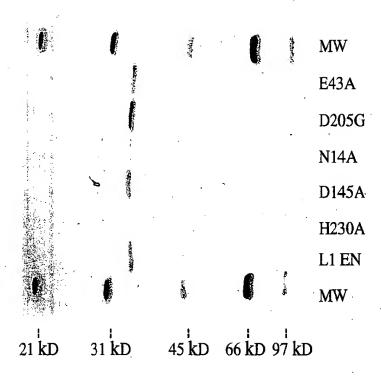


Fig. 8A

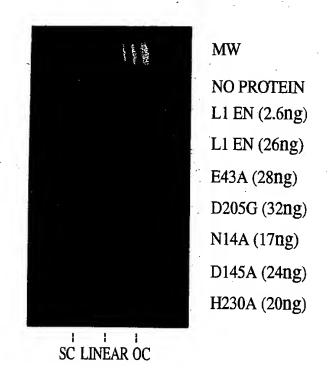


Fig. 8B

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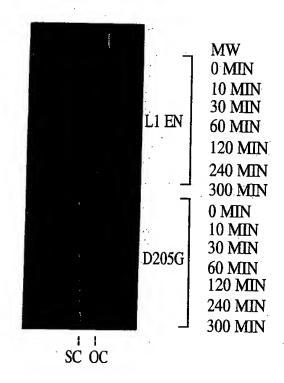
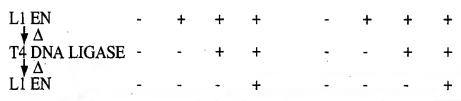


Fig. 8C



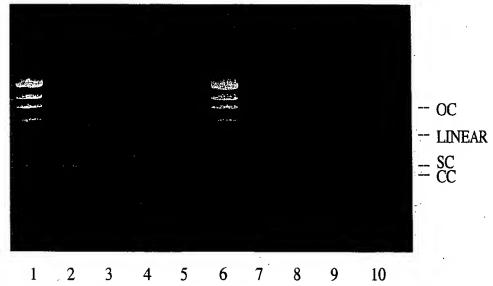
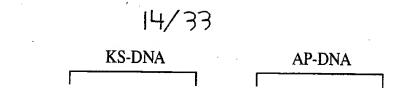
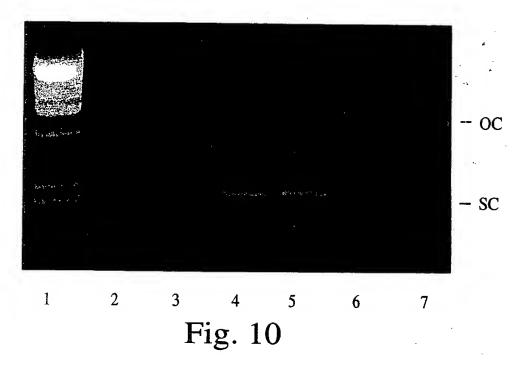


Fig. 9



MW NO PROTEIN L1 EN EXOIII NO PROTEIN L1 EN EXOIII



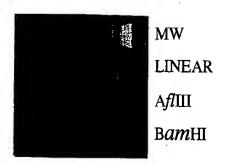


Fig. 11A

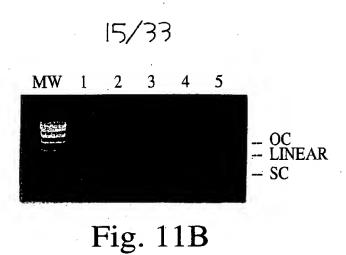


Fig. 11Ci Fig. 11Cii Fig. 11Ciii

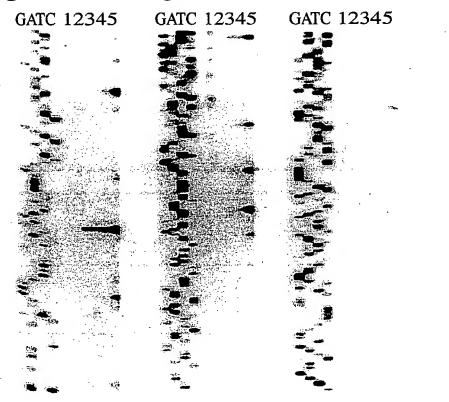
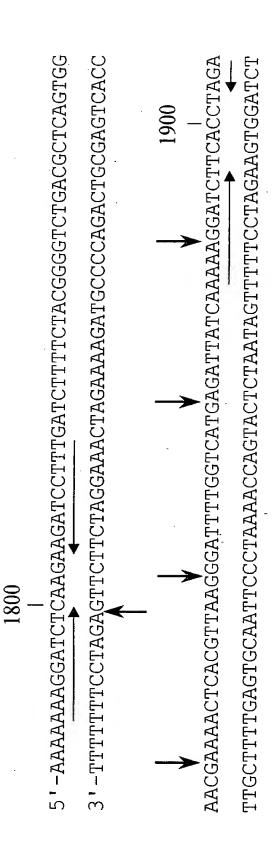


FIG. 11D





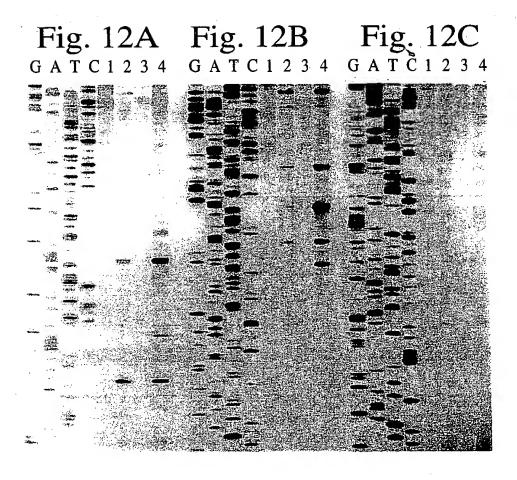


FIG. 13

5'-GAGGCCTAAAATTCCAACCGAAAATCGCGAGGTTACTTTTTGGAGCCCGAAAAC 3'-CICCGGATTTTAAGGTTGGCTTTTAGCGCTCCAATGAAAAAACCTCGGGCTTTTG

GTGGGTTTTTACCCGGTTTTTACGGTTTTTACGGTTTTTTATGGG CACCCAAAATCAAGGAAAAATGGCCAAAAATGCCCAAAAATAGCGAAAATACCC CGAAAATTGGCAAAAATTAACAAAAAATAGCGAATTTCCCTGAATTTTAGGCGAA GCTTTTAACCGTTTTTAATTGTTTTTTATCGCTTAAAGGGACTTAAAATCCGCTT

aaaacccccgaaaatggccaaaaacgcactgaaaatcaaaatctgaacgtctacg-3' TTTTGGGGGCTTTTACCGGTTTTTGCGTGACTTTTAGTTTTAGACTTGCAGATGC-5

FIG. 14A

CTTTTTaaaaaaattgttt GAAAAttttttttaacaaa CTTTTTaaaaaaattgttt GAAAAAttttttttaacaaa CTTTTTaaaaaaattgttt GAAAAA HO-ttttttt-

ORF2 XXXXAAAAAAAAAAAAAAAAAA L1 ORF1

FIG. 14Bii

AGGATCT caagaag TCCTAGAgttcttc

AAGTTTTaaatcaa TTCAAAAtttagtt

GAAGTTT taaatca CTTCAAA atttagt

TCCTTTTaaattaa AGGAAAAtttaatt

AGATAAT caaaaaag TCTATTAgtttttc

TCAATCTaaagtat AGTTAGAtttcata

FIG. 14Bi

ATAATCT catgacc TATTAGA gtactgg

CATTTTTaatttaa GTAAAAttaaatt

TCATTTTtaattta AGT<u>AAAA</u>a<u>tt</u>aaat

AAAATCCcttaacg TTTTAGGgaattgc

AAGATCCtttttga TTCTAGGaaaaact

GAGTTTTcgttcca CTCAAAAgcaaggt

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d	4		⊟
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LI	Z.		\mathcal{O}
\vdash	AAAA		E
⊟	A		K
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		1	_

GTAGAGAACAAttctgtttgtttg

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ATTAATgtttcctttt ಥ Q a a b Q gga TTAcaaa TAA

4 gtagacgacga tgct catctgc tta GCAGTTaaat CGTCAAL

DYSTROPHIN

tg tac taa. م ب 4 Ø GGAATTaaga 4 \circ 4 CCTTAAL

FIG. 14D

- A TTTTTTaaTGTCAACTC

 AAAAA ttACAGTTGAG
- B TCTATTaaaaaggaaaaa (+207 bp)
 AGATAAtttttcctttt
- D AAGAATaaattttcttttt(+21 bp)
 TTCTTAtttaaaagaaaaa

FIG. 14E

L1.2 AGTGGTgaaagtgggcattct
(LRE-1) TCACCActttcacccgtaaga

†
LRE-2 TGAGCTaagatcacaccactg
ACTCGAttctagtgtggtgac

GTGTTTtaaacttagtaaca	TCTGATaagaataatagga	GTATTTaaaaaa
CACAAAatttgaatcattgt	AGACTAttcttattatcct	CATAAAtttttt
L1.1	L1.3	L1.4

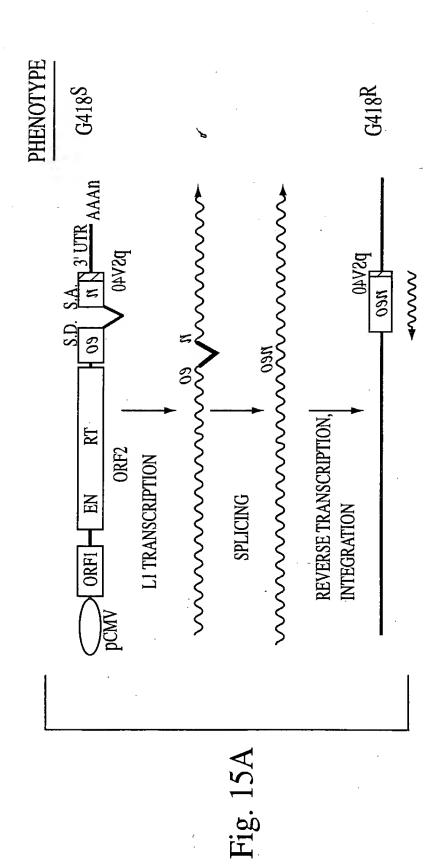
ATACACaaatttggacccaaagagag Gtttaaacctgggtttctctc TATGT

ATATATaagaggattaccag TATATAttctcctaatgqtc

ctcctaatggt

FIG. 14G

- L05637 TTTTTTaaaaaa
 AAAAA ttttt
- Z70758 TGACTTagaagtccatgaatcca ACTGAAtcttcaggtacttaggt
- **Z69721** TGCCTTaagaaggtcaaaggcag ACGGAAttcttccagtttccgtc
- **Z69648** AAAAACaaaaaa TTTTTGtttttt
- Z68163 AAAATTaaaaattgtgat
 TTTTAAtttttaactcta
- **Z68339** GGGGTTaagattgaagaatg CCCCAAttctaacttcttac
- Z70042 GGATTCaaaaggagttattgat CCTAAGttttcctcaataacta
- Z68746 TCTTATaaaaagtaaact AGAATAtttttcatttga



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CONSTR	RUCT	TRANSPOSITION FREQUENCY (10 ⁻⁶ cell ⁻¹)
WILDTY	PE L1	335
D703Y	(RT)	0.5
N14	(EN)	3.4
D145A	(EN)	1.0
D205G	(EN)	0.7
H230A	(EN)	1.3

FIG. 15B

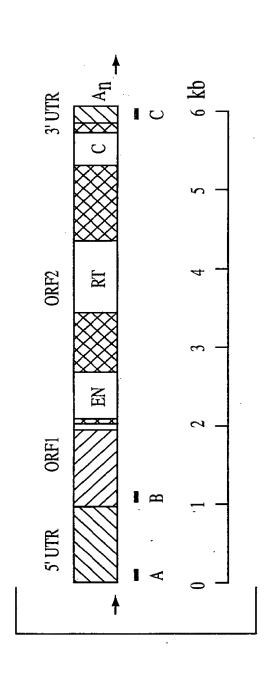


Fig. 17A

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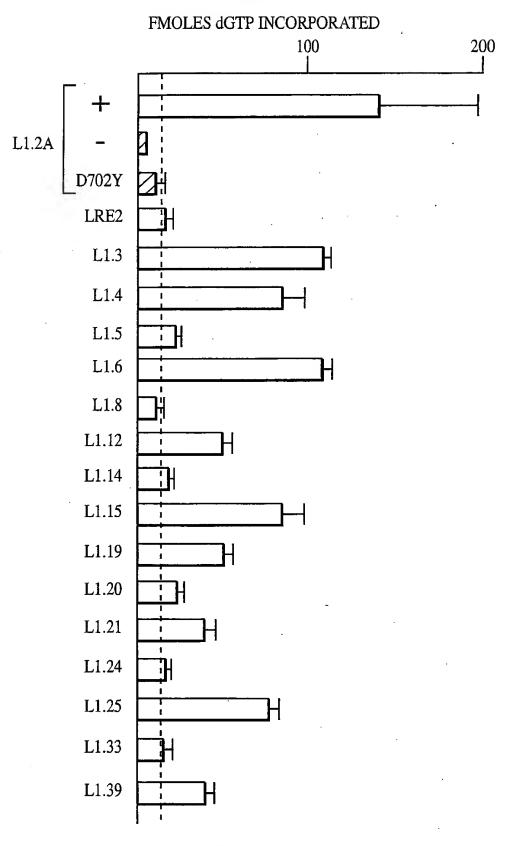


Fig. 17B

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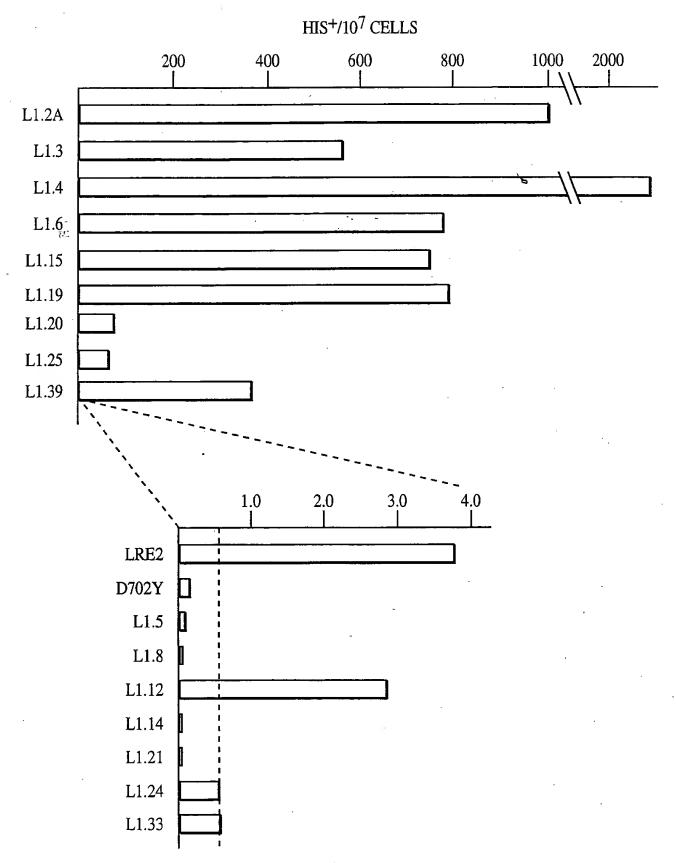
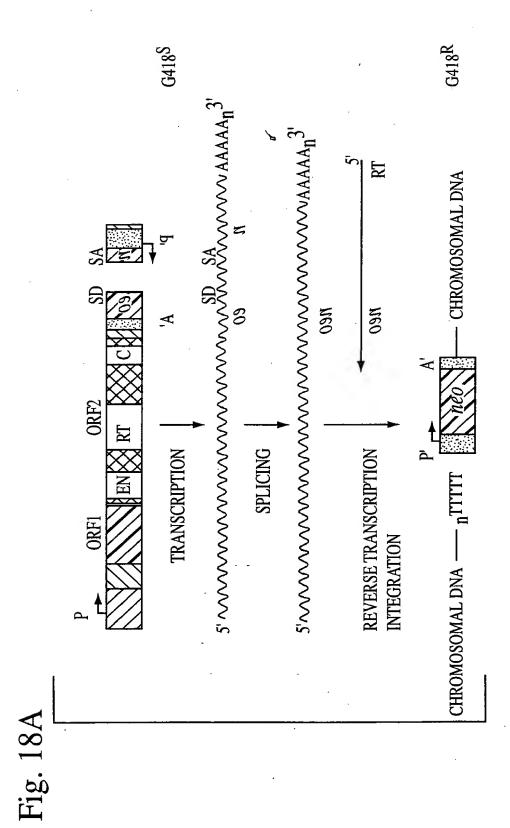


Fig. 17C



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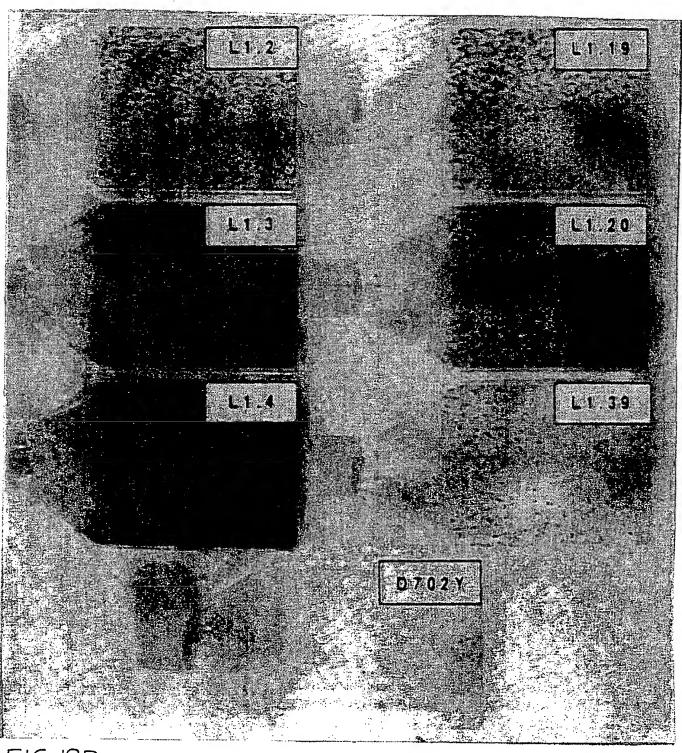


FIG. 18B